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It is worth noting, by the way, that the three specimens showed nicely three successive stages in the growth of the teeth in the hammer-head. In the 51 cm. shark no teeth had yet appeared in either jaw. In the 56 cm. one, minute teeth could be felt by the finger in the lower jaw, but none could be detected in the upper. In the 60.5 cm. specimen, teeth were well developed in both jaws and were from 1.5 mm. to 3 mm. in height. Since none of the three specimens was embryonic, but all were free-swimming young sharks, it follows that *Sphyrna zygaena* is born toothless and that teeth make their appearance when the shark is about 55 cm. in length. The teeth then grow rapidly, reaching a length of 1.5 to 3 mm. in height by the time the shark is 60 cm. in length.

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## NOTES ON SOME FISHES FROM CHILI.

Through the kindness of Dr. W. P. Wilson, I have been enabled to examine some market-fishes received from Valparaiso by the Commercial Museum of Philadelphia. Among them I found:

*Catulus chilensis* (Guichenot), *Squalus acanthias*, Linn., *Raja lima*, Peoppig, *R. flavirostris*, Philippi, *Callorhynchus callorhynchus* (Linn.), *Carasius auratus* (Linn.), *Ophichthus ocellatus* (Le Sueur), *Clupanodon sagax* (Jenyns), *Ethmidium coerulea* (Valenciennes), *Mugil cephalus*, Linn., *Sarda chilensis* (Valenciennes), *Thyrsites atun* (Euphrasen), *Seriotelella violacea*, Guichenot, *Trachurus picturatus* (Bowdich), *Percichthys trucha* (Valenciennes), *Paralabrax humeralis* (Valenciennes), *Isacia conceptionis* (Valenciennes), *Sciaena fasciata* (Tschudi), *Aplodactylus punctatus*, Valenciennes, *Chromis crasma* (Valenciennes), *Sebastodes darwini* (Cramer), *S. chilensis*, Steindachner, *Pinguipes chilensis* (Molina), *Prolatilus jugularis* (Val-

enciennes), *Porichthys porosus* (Valenciennes), *Gobiesox marmoratus*, Jenyns, *Scartichthys eques* (Steindachner), *Genypterus blacodes* (Schneider), *Eleginops maclovina* (Valenciennes), *Bovichthus diacanthus* (Carmichael), *Paralichthys kingii* (Jenyns).

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### A LARGE POLYODON FROM IOWA.

The American Museum of Natural History has received the photograph of a very large, mounted Polyodon, taken in Lake Okoboji, Northern Iowa, February 22, 1916, by Mr. R. D. Vanderbeck of Arnold's Park, Iowa, who writes that it was taken with a spear and gives the length of the fish as 7 ft. 1 in., its girth 45½ in., the length of the bill 17 in.

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### NOTES ON CISTUDO CAROLINA FROM ORIENT, LONG ISLAND.

Considerable has been said in COPEIA about the aquatic habits of the Box Turtle on Long Island. I would like to put on record a few instances of its frequenting both fresh and salt water near Orient.

One quite remarkable occurrence was in August, 1909, at East Marion. In the center of a dry woods there was a depression where the water had recently evaporated, leaving a deep oozy mire. In and around this sink I counted between sixty and seventy of these turtles. More than half of these were partly or entirely submerged in the mud. Specimens were poked out that were buried near a foot in depth. Circling around the hole at varying distances I observed numbers of others working toward it from all directions. The most surprising thing to me was